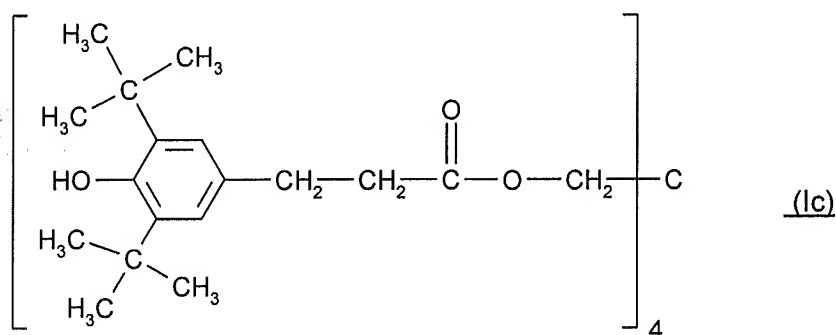


Claims

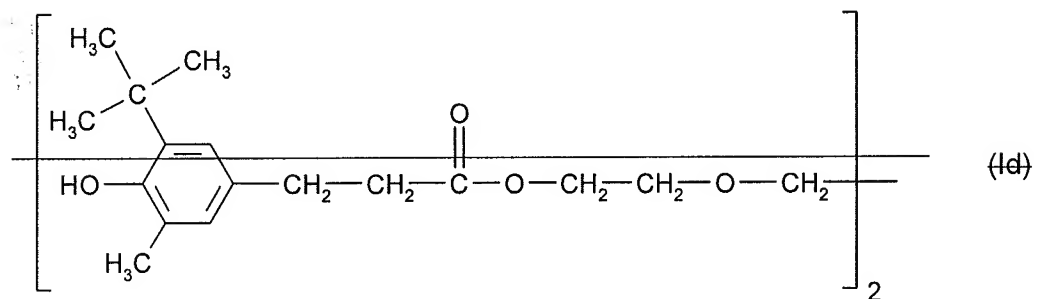
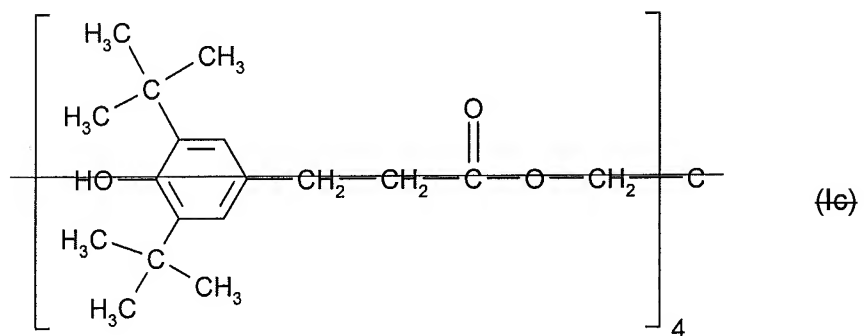
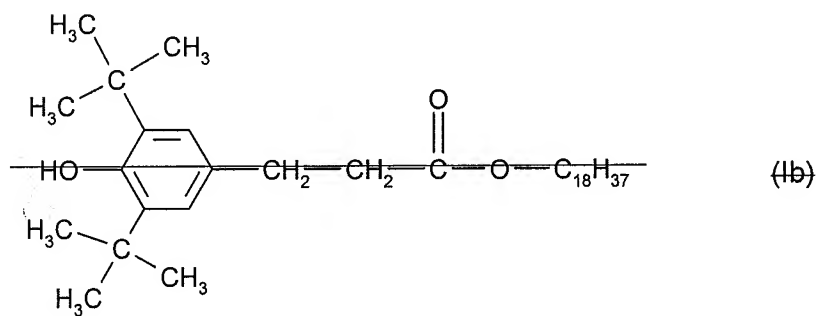
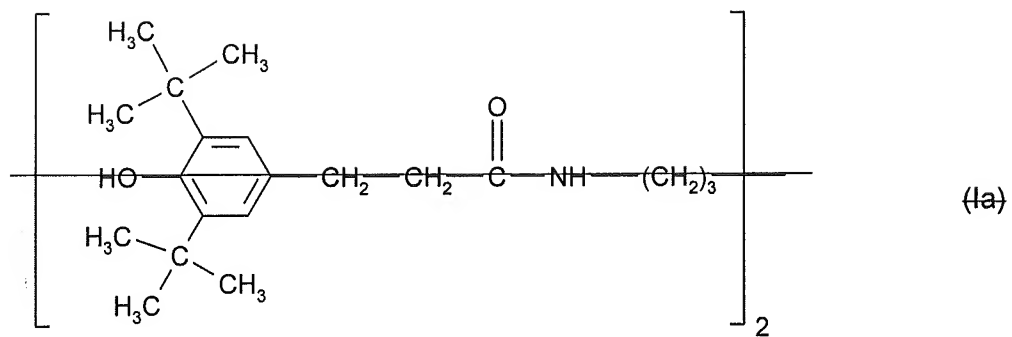
1. (currently amended) A nanocomposite material comprising

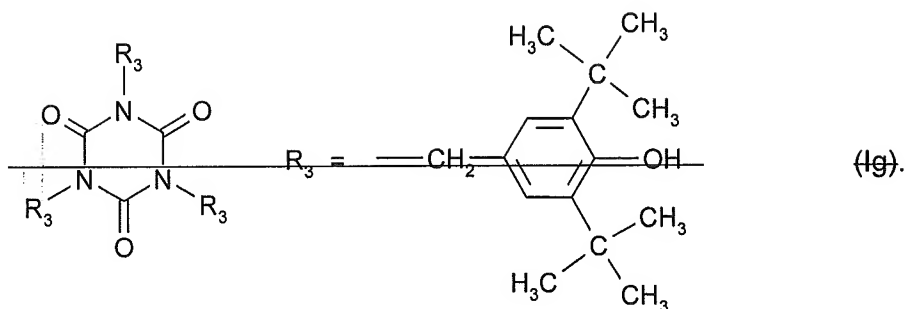
- a) a ~~polyolefinsynthetic polymer~~,
- b) a natural or synthetic phyllosilicate or a mixture of such phyllosilicates in nanoparticles, which are modified by an ammonium or phosphonium compound,
- c) a phenolic antioxidant and/or a processing stabilizer, and
- d) ~~a mono or polyfunctional compound selected from bisphenol A diglycidyl ether[[,]]bisphenol F diglycidyl ether, diglycidyl 1,2-cyclohexanedicarboxylate and phenol novolak epoxy resin,~~

wherein the processing stabilizer is tris(2,4-di-tert-butylphenyl) phosphite and the phenolic antioxidant is of formula Ic



wherein component (c) is ~~tris(2,4-di-tert-butylphenyl) phosphite, bis(2,4-di-tert-butyl-6-methylphenyl)-ethyl phosphite, bis(2,4-di-tert-butylphenyl) pentaerythritol-diphosphite, tetrakis(2,4-di-tert-butylphenyl)-4,4'-biphenylenediphosphonite, 3-(3,4-dimethylphenyl)-5,7-di-tert-butylbenzofuran-2-one, 3-(2,3-dimethylphenyl)-5,7-di-tert-butylbenzofuran-2-one, and/or a compound of the formula Ia, Ib, Ic, Id or Ig~~





2. (canceled)

3. (canceled)

4. **(original)** A nanocomposite material according to claim 1, wherein component (b) is a montmorillonite, bentonite, beidelite, mica, hectorite, saponite, nontronite, sauconite, vermiculite, ledikite, magadite, kenyaite, stevensite, volkonskoite or a mixture thereof in nanoparticles.

5-11. (canceled)

12. **(original)** A nanocomposite material according to claim 1, wherein component (b) is present in an amount of from 0.01 to 30 %, based on the weight of component (a).

13. **(original)** A nanocomposite material according to claim 1, wherein component (c) is present in an amount of from 0.01 to 5 %, based on the weight of component (a).

14.

14. **(original)** A nanocomposite material according to claim 1, wherein component (d) is present in an amount of from 0.01 to 5 %, based on the weight of component (a).

15. (original) A nanocomposite material according to claim **1**, comprising in addition, besides components (a), (b), (c) and (d), further additives.

16. (previously presented) A nanocomposite material according to claim **15**, comprising as further additives modification agents for nanocomposites, compatibilizers, light-stabilizers, dispersing or solvating agents, pigments, dyes, plasticizers or toughening agents.

17. (previously presented) A nanocomposite material according to claim **15**, comprising as further additives modification agents for nanocomposites, compatibilizers or metal passivators.

18. (original) A nanocomposite material according to claim **1** in the form of a masterbatch comprising component (b) in an amount of from 0.03 to 90 %, based on the weight of component (a), component (c) in an amount of from 0.03 to 15 %, based on the weight of component (a), and component (d) in amount of from 0.03 to 15 %, based on the weight of component (a).

19. (original) A process for stabilizing a synthetic polymer against oxidative, thermal or light-induced degradation, which comprises incorporating in or applying to said material at least one each of components (b), (c) and (d) according to claim **1**.

20. (canceled)